

## Title (en)

Gravity feed fluid dispensing valve cap

## Title (de)

Unter Schwerkraft arbeitende Flüssigkeit Ausgabeventilkappe

## Title (fr)

Capuchon avec valve de distribution de fluide par gravité

## Publication

**EP 1346944 B1 20060118 (EN)**

## Application

**EP 03011248 A 19980910**

## Priority

- EP 98944825 A 19980910
- US 94675997 A 19971008

## Abstract (en)

[origin: WO9918026A1] A dispensing valve cap mountable to a bottle is provided with a first valve part having a tubular portion having an air inlet and a fluid outlet spaced apart along a longitudinal axis of the tubular portion to form a constant head valve for dispensing fluid from the bottle. A second valve part of the valve rotatably mounted to the first valve part includes a tubular portion for simultaneously closing both the air inlet and the fluid outlet of the first valve part when fluid dispensing is not desired. The second valve part further includes an air inlet, and a fluid outlet alignable with the air inlet and fluid outlet of the tubular portion when fluid dispensing is desired. The dispensing valve cap controls fluid flow from the bottle. The bottle with the valve cap is usable with a dispenser assembly for mixing a concentrated fluid from the bottle with a dilutant. A tamper resistant lock prevents undesired rotation of the second valve part relative to the first valve part. The tamper resistant lock is deactivated upon insertion of the valve cap into the dispenser assembly. An orifice insert member with a predetermined fluid control aperture is positioned in the fluid outlet path to control fluid flow rate through the valve cap.

## IPC 8 full level

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## DOCDB simple family (publication)

**WO 9918026 A1 19990415**; AU 748585 B2 20020606; AU 9227698 A 19990427; BR 9812732 A 20000822; CA 2303077 A1 19990415; CA 2303077 C 20070515; CN 1178851 C 20041208; CN 1272828 A 20001108; DE 69817203 D1 20030918; DE 69817203 T2 20040617; DE 69833234 D1 20060406; DE 69833234 T2 20060803; EP 1021369 A1 20000726; EP 1021369 B1 20030813; EP 1346944 A1 20030924; EP 1346944 B1 20060118; ES 2201530 T3 20040316; ES 2253602 T3 20060601; JP 2001519294 A 20011023; KR 100589025 B1 20060613; KR 20010030997 A 20010416; US 2001009166 A1 20010726; US 6367521 B2 20020409; US 6488058 B1 20021203

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